

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

Patent Number: 7,380,891  
Issued: June 3, 2008  
Name of Patentee: Toshihiko Ohashi et al.  
Title of Invention: POWER SUPPLY APPARATUS FOR VEHICLE  
Application No.: 10/524,335  
Filing Date: February 11, 2005  
Docket No.: MAT-8666US

**RESPONSE TO LETTER DENYING CERTIFICATE OF CORRECTION**

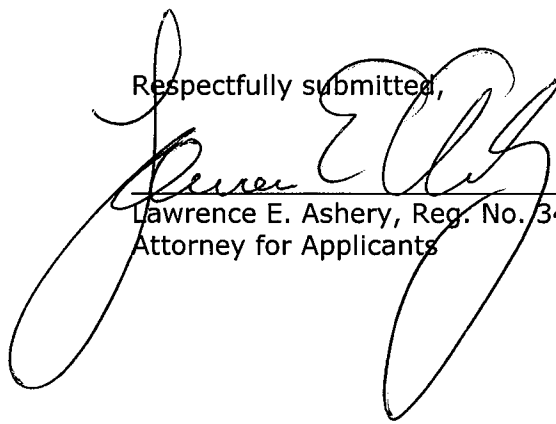
Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

Sir:

By letter dated August 27, 2008, the USPTO denied a request for Fig. 3 to be corrected. The decision to deny the Certificate of Correction was based on the PTO's understanding that "no attempt and/or request has been made prior to the issue fee payment" to correct the alleged error in drawing Fig. 3. Fig. 3 was amended, however, by Preliminary Amendment dated February 11, 2005. A copy of the Preliminary Amendment correcting Fig. 3 is enclosed.

Issuance of a Certificate of Correction is respectfully requested.

Respectfully submitted,

  
Lawrence E. Ashery, Reg. No. 34,515  
Attorney for Applicants

LEA/dmw

Enclosures:  
USPTO Letter  
Preliminary Amendment

Dated: October 3, 2008

P.O. Box 980  
Valley Forge, PA 19482  
(610) 407-0700

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MJC



UNITED STATES DEPARTMENT OF COMMERCE  
COMMISSIONER FOR PATENTS  
P. O. BOX 1450  
ALEXANDRIA, VA 22313-1450

Date : 8/27/2008  
Patent No. : 7,380,891 B2  
Inventor(s) : Ohashi et al.  
Issue Date : June 3, 2008  
Title : POWER SUPPLY APPARATUS FOR VEHICLE  
Doc./File No. : MAT-8666US

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SEP -2 2008

RatnerPrestia

TMH

Re: Certificate of Correction

Consideration has been given your request for a certificate of correction, for the above-identified patent under the provisions of Rule 1.322 and 1.323.

Respecting the alleged error(s) in drawing Fig. 3, the current drawing figures, including drawing figure 3, which were provided on 2/11/05 for the patent, is/are printed in accordance with the drawing figures in the office, since no attempt and/or request has been made prior to the issue fee payment and the issuance of the patent to correct the alleged error in drawing figure 3, a correction is not in order here under 3.22 or 3.23.

In view of the foregoing, your request for a certificate of correction is hereby denied.

Further consideration will be given concerning this matter upon receipt of a request for **Reconsideration** (reconsideration should be accompanied by supporting document(s) such as, amendment, postcard receipt, 1449/892, etc.) and should be filed and directed to Decisions & Certificates of Correction Branch.

Ernest C. White, *LIE* (703) 308-9390 x122  
Mary F. Diggs, *Supervisor* (703) 308-9390 x125  
Decisions & Certificates of Correction Branch

RATNERPRESTIA  
P O BOX 980  
VALLEY FORGE PA 19482-0980

ecw

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**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

Application No: To Be Assigned  
 Applicant: Toshihiko OHASHI, et al.  
 Filed: Herewith  
 Title: POWER SUPPLY APPARATUS FOR VEHICLE  
 (AS AMENDED)  
 TC/A.U.: To Be Assigned  
 Examiner: To Be Assigned  
 Confirmation No.: To Be Assigned  
 Docket No.: MAT-8666US

**COPY**

**PRELIMINARY AMENDMENT**

Mail Stop PCT  
 Commissioner for Patents  
 P.O. Box 1450  
 Alexandria, VA 22313-1450

Sir:

Prior to examination, please amend the above-identified application as follows:

- ☒ **Amendments to the Title** begin on page **2** of this paper.
- ☒ **Amendments to the Specification** begin on page **3** of this paper.
- ☒ **Amendments to the Claims** are reflected in the listing of claims which begins on page **4** of this paper.
- ☒ **Amendments to the Drawings** begin on page **7** of this paper and include an attached replacement sheet.
- ☐ **Amendments to the Abstract** are on page      of this paper. A clean version of the Abstract is on page      of this paper.
- ☐ **Remarks/Arguments** begin on page      of this paper.

**Amendments to the Title:**

Please replace the title with the following:

| POWER SUPPLY APPARATUS FOR VEHICLE

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**Amendments to the Specification:**

Please add the following new paragraph after the Title and before the first paragraph on page 1:

THIS APPLICATION IS A U.S. NATIONAL PHASE APPLICATION OF PCT INTERNATIONAL APPLICATION PCT/JP2004/009686.

Please replace the paragraph, beginning at page 1, line 25, with the following rewritten paragraph:

In this type of power supply apparatus for a vehicle, since an auxiliary power supply is responsible for braking of a vehicle in an emergency, it is extremely important to supply electric power ~~to~~from the auxiliary power supply reliably in an emergency. Therefore, it is important to surely predict the lifetime of the auxiliary power supply and to detect a state of the auxiliary power supply at any time.

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**Amendments to the Claims:** This listing of claims will replace all prior versions, and listings, of claims in the application

Listing of Claims:

1. (Original) A power supply apparatus for a vehicle, comprising:

an electronic controller for outputting information for controlling braking of the vehicle to a brake based on at least one of information from a brake pedal and information in response to a moving state of the vehicle;

a battery for supplying electric power to the brake via the electronic controller;

an auxiliary power supply including a capacitor unit formed of a plurality of capacitors and a detection unit for detecting an abnormality in the capacitor unit, the auxiliary power supply supplying electric power to the brake via the electronic controller when the battery is in an abnormal state;

wherein, in charging or discharging the capacitor unit, the detection unit measures an internal resistance value of the capacitor unit, measures an internal capacitance value of the capacitor unit from a rate of change of voltage per unit time of the capacitor unit, and detects an abnormality in the capacitor unit based on the measured internal resistance value and internal capacitance value.

2 (Original) The power supply apparatus for a vehicle according to claim 1, wherein, in charging the capacitor unit, the detection unit measures an internal resistance value of the capacitor unit from a voltage obtained when charging is started or a voltage obtained when the charging is interrupted, and measures an internal capacitance value of the capacitor unit from a rate of the change of voltage per unit time of the capacitor unit in charging.

3. (Original) The power supply apparatus for a vehicle according to claim 1, wherein, in discharging the capacitor unit, the detection unit measures an internal resistance value of the capacitor unit from a voltage obtained when discharging is started or a voltage obtained when the discharging is interrupted, and measures an internal capacitance value of

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the capacitor unit from a rate of change of voltage per unit time of the capacitor unit in discharging.

4. (Currently Amended) The power supply apparatus for a vehicle according to claim 2,

wherein the detection unit measures temperature of the capacitor unit in the charging,

corrects the internal capacitance value and the internal resistance value at each temperature based on a capacitance value difference and a resistance value differences between each of the measured internal capacitance value and the measured internal resistance value and each of a standard internal capacitance value and a standard internal resistance value of the capacitor unit, which are initialized in advance, at the temperature measured in the charging, and

judges whether or not the capacitor unit is in a normal state by comparing the corrected internal resistance value with a limit internal resistance value with respect to the corrected internal capacitance value, at the each temperature.

5. (Currently Amended) The power supply apparatus for a vehicle according to claim 3,

wherein the detection unit measures temperature of the capacitor unit in the discharging,

corrects the internal capacitance value and the internal resistance value at each temperature based on a capacitance value difference and a resistance value differences between each of the measured internal capacitance value and the measured internal resistance value and each of a standard internal capacitance value and a standard internal resistance value of the capacitor unit, which are initialized in advance, at the temperature measured in the discharging, and

judges whether or not the capacitor unit is in a normal state by comparing the corrected internal resistance value with a limit internal resistance value with respect to the corrected internal capacitance value, at the each temperature.

6. (Currently Amended) The power supply apparatus for a vehicle according to any of claims 1 to 5, wherein the rate of change of voltage is measured multiple times every predetermined time.

7. (New) The power supply apparatus for a vehicle according to claim 2, wherein the rate of change of voltage is measured multiple times every predetermined time.

8. (New) The power supply apparatus for a vehicle according to claim 3, wherein the rate of change of voltage is measured multiple times every predetermined time.

9. (New) The power supply apparatus for a vehicle according to claim 4, wherein the rate of change of voltage is measured multiple times every predetermined time.

10. (New) The power supply apparatus for a vehicle according to claim 5, wherein the rate of change of voltage is measured multiple times every predetermined time.

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**Amendments to the Drawings:**

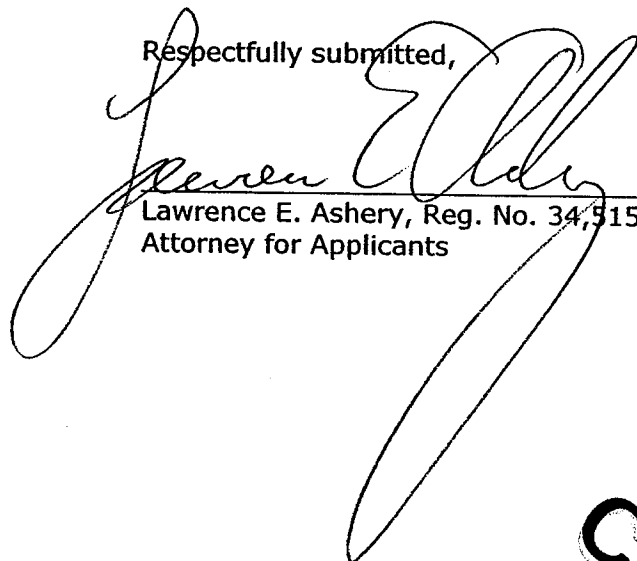
Please delete page "7/7" of the drawings, also labeled as "Reference numerals in the drawings" in its entirety.

The attached sheet of drawings includes changes to Figure 3. This sheet replaces the original sheet.

Attachment

**COPY**

Respectfully submitted,



Lawrence E. Ashery, Reg. No. 34,515  
Attorney for Applicants

LEA:ds

Attachment: Figure 3 (1 sheet)

Dated: February 11, 2005

P.O. Box 980  
Valley Forge, PA 19482  
(610) 407-0700

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The Commissioner for Patents is hereby  
authorized to charge payment to Deposit  
Account No. 18-0350 of any fees associated  
with this communication.

**EXPRESS MAIL**

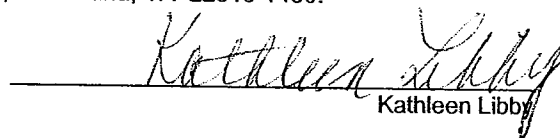
Mailing Label Number:

EV 547590895 US

Date of Deposit:

February 11, 2005

I hereby certify that this paper and fee are being deposited, under 37 C.F.R. § 1.10 and with sufficient postage, using the "Express Mail Post Office to Addressee" service of the United States Postal Service on the date indicated above and that the deposit is addressed to the Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.



Kathleen Libby

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3/7

FIG. 3

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